查询DD110F供应商

DIODE MODULE

DD110F/KD110F

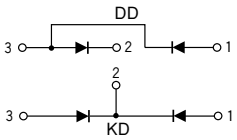
UL;E76102(M)

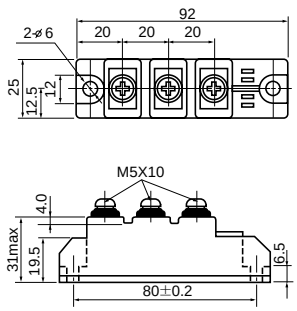
Power Diode Module **DD110F** series are designed for various rectifier circuits. **DD110F** has two diode chips connected in series in 25mm (1inch) width package and the mounting base is elctrically isolated from elements for simple heatsink construction. Wide voltage rating up to, 1,600V is avaiable for various input voltage.

- Isolated mounting base
- Two elements in a package for simple (single and three phase) bridge connections
- Highly reliable glass passivated chips
- High surge current capability

(Applications)

Various rectifiers, Battery chargers, DC motor drives





Unit : mm

■Maximum Ratings

(Tj=25℃ unless otherwise specified)

Symbol	Item	Ratings				Unit
		DD110F40	DD110F80	DD110F120	DD110F160	
V_{RRM}	Repetitive Peak Reverse Voltage	400	800	1200	1600	V
V_{RSM}	Non-Repetitive Peak Reverse Voltage	480	960	1300	1700	V

Symbol	Item		Conditions	Ratings	Unit
$I_{F(AV)}$	Average Forward Current		Single phase, half wave, 180° conduction, Tc : 88℃	110	A
$I_{F(RMS)}$	R.M.S. Forward Current		Single phase, half wave, 180° conduction, Tc : 88℃	172	A
I_{FSM}	Surge Forward Current		½ cycle, 50/60Hz, peak value, non-repetitive	2300/2550	A
I^2t	I^2t		Value for one cycle of surge current	26500	A^2S
V_{ISO}	Isolation Breakdown Voltage (R.M.S)		A.C.1minute	2500	V
Tj	Junction Temperature			−40 to +125	℃
Tstg	Storage Temperature			−40 to +125	℃
	Mounting Torque	Mounting (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	N·m (kgf·cm)
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	
	Mass			170	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	at V_{DRM}, single phase, half wave. Tj=125℃	20	mA
V_{FM}	Forward Voltage Drop, max.	Forward current 350A, Tj=25℃, Inst. measurement	1.45	V
Rth(j-c)	Thermal Impedance, max.	Junction to case	0.25	℃/W

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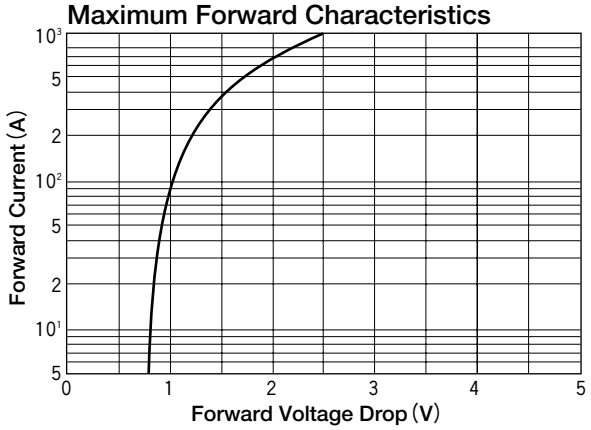
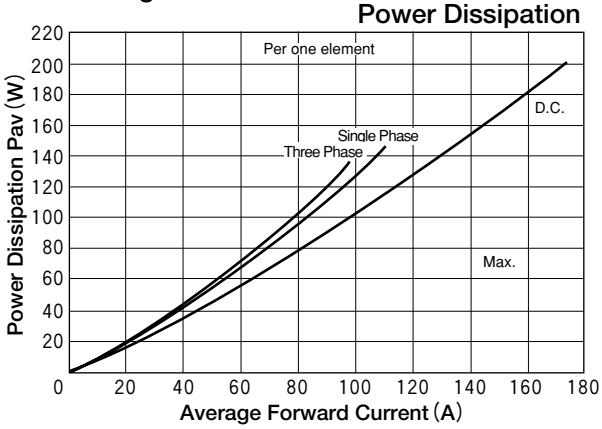
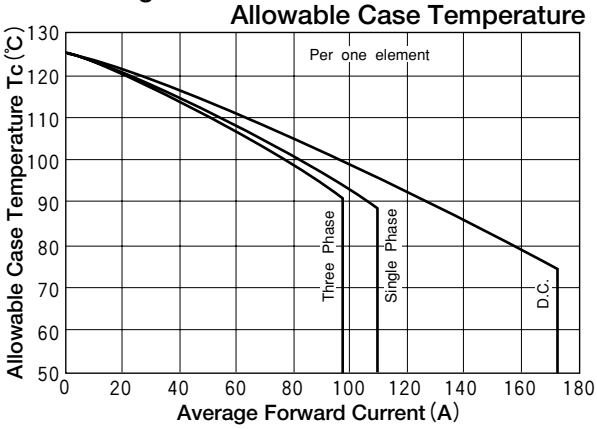
Maximum Forward Characteristics



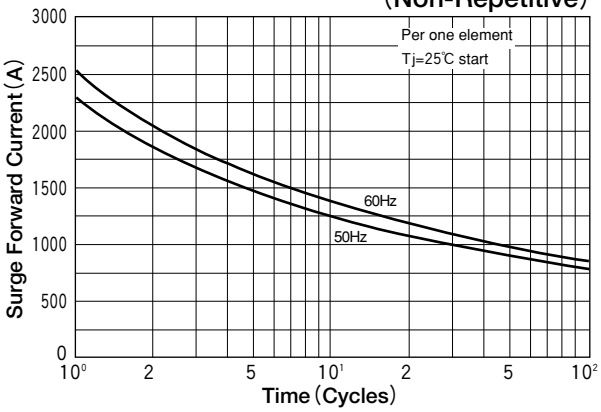
Average Forward Current vs. Power Dissipation



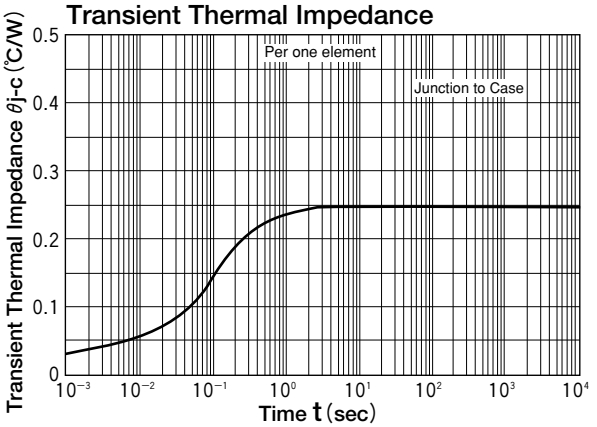
Average Forward Current vs. Allowable Case Temperature



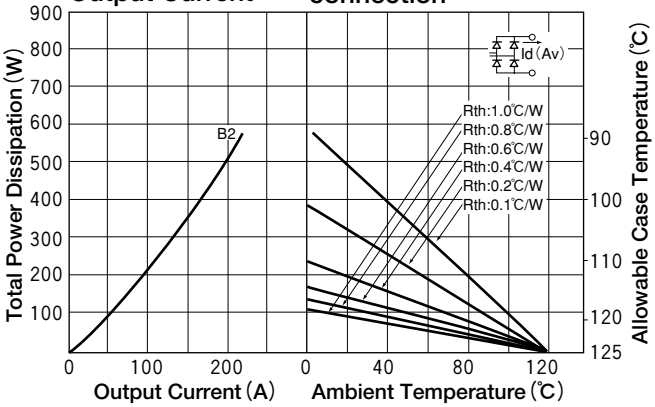
Cycle Surge Forward Current Rating (Non-Repetitive)



Transient Thermal Impedance



Output Current — B2;Two Pluse Bridge connection



Output Current — B6;Six pulse Bridge connection